

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for taking a policy decision by a policy decision device (~~S3~~), wherein the policy decision device (~~S3~~) has access to objects being relatable to each other by relations of one or more relation types, the method comprising the steps of

- receiving ~~Receiving~~ (~~100~~) a request for the policy decision, the request specifying a first object of the objects and request information,
- obtaining ~~Obtaining~~ (~~105~~) a policy matching to the request information and being applicable to a second object of the objects,
- obtaining ~~Obtaining~~ (~~110~~) at least one propagation rule associated to the policy, the at least one propagation rule specifying at least one relation type of the one or more relation types,
- verifying ~~Verifying~~ if a relation path exists, the relation path linking the first object and the second object and consisting of one or more of the relations,
- verifying ~~Verifying~~ if the one or more relations of the relation path are in accordance with at least one of the at least one specified relation type, and
- if said relation path exists and if said one or more relations of the relation path are in accordance, applying the policy to the first object for taking (~~120~~) the policy decision.

2. (Currently Amended) The method according to claim 1, wherein the at least one propagation rule specifies at least one direction and the method further comprises the step of verifying if the one or more relations of the relation path are in accordance with the at least one specified direction.

3. (Currently Amended) The method according to claim 1 ~~or 2~~, wherein the at least one propagation rule specifies at least one condition that is verified for at least one of the objects of the relation path.

4. (Currently Amended) The method according to claim 1 ~~any of the preceding claims~~, wherein the existence of the relation path is considered for the obtaining ~~(105)~~ of the policy.

5. (Currently Amended) The method according to claim 1 ~~any of the preceding claims~~, wherein the at least one propagation rule is obtained from at least one propagation rule database on the basis ~~base~~ of at least one reference identifier associated to the at least one propagation rule and the policy.

6. (Currently Amended) The method according to claim 1 ~~any of the preceding claims~~, wherein at least one further policy component of the policy is obtained from at least one policy component database based on at least one reference identifier associated to the at least one further policy component and the policy.

7. (Currently Amended) A policy decision device ~~(S3)~~ for taking a policy decision, the policy decision device ~~(S3)~~ comprising:

a receiving unit ~~(RU)~~ and

a processing unit ~~(PU)~~, wherein the processing unit ~~(PU)~~ is adapted to access objects being relatable to each other by relations of one or more relation types, the receiving unit ~~(RU)~~ is adapted to receive a request for the policy decision, the request specifying a first object of the objects and request information, the processing unit ~~(PU)~~ is further adapted to obtain ~~(105)~~ a policy matching to the request information and being applicable to a second object of the objects, to obtain ~~(110)~~ at least one propagation rule associated to the policy, the at least one propagation rule specifying at least one relation type of the one or more relation types, to verify if a relation path exists, the relation path linking the first object and the second object and consisting of one or more of the relations, to verify if the one or more relations of the relation path are in

accordance with at least one of the at least one specified relation type, and if said relation path exists and if said one or more relations of the relation path are in accordance, to apply the policy to the first object for taking ~~(120)~~ the policy decision.

8. (Currently Amended) The policy decision device ~~(S3)~~ according to claim 7, wherein the at least one propagation rule specifies at least one direction and the processing unit ~~(PU)~~ is adapted to verify if the one or more relations of the relation path are in accordance with the at least one specified direction.

9. (Currently Amended) The policy decision device ~~(S3)~~ according to claim 7 ~~or 8~~, wherein the at least one propagation rule specifies at least one condition and the processing unit ~~(PU)~~ is adapted to verify, for at least one of the objects of the relation path, if said at least one object is in accordance with the at least one condition.

10. (Currently Amended) The policy decision device ~~(S3)~~ according to claim 7 ~~any of the claims 7 to 9~~, wherein the processing unit ~~(PU)~~ is adapted to consider the existence of the relation path for the obtaining ~~(105)~~ of the policy.

11. (Currently Amended) The policy decision device ~~(S3)~~ according to claim 7 ~~any of the claims 7 to 10~~, wherein the processing unit ~~(PU)~~ is adapted to obtain the at least one propagation rule from at least one propagation rule database on the basis ~~base~~ of at least one reference identifier associated to the at least one propagation rule and the policy.

12. (Currently Amended) The policy decision device ~~(S3)~~ according to claim 7 ~~any of the claims 7 to 11~~, wherein the processing unit ~~(PU)~~ is adapted to obtain at least one further policy component of the policy from the at least one policy component database based on at least one reference identifier associated to the at least one further policy component and the policy.

13. (Currently Amended) A computer program loadable into a policy decision device (~~S3~~), the computer program comprising code adapted to access objects being relatable to each other by relations of one or more relation types, to process a request for a policy decision, the request specifying a first object of the objects and request information, to obtain (~~105~~) a policy matching to the request information and being applicable to a second object of the objects, to obtain (~~110~~) at least one propagation rule associated to the policy, the at least one propagation rule specifying at least one relation type of the one or more relation types, to verify if a relation path exists, the relation path linking the first object and the second object and consisting of one or more of the relations, to verify if the one or more relations of the relation path are in accordance with at least one of the at least one specified relation type, and if said relation path exists and if said one or more relations of the relation path are in accordance, to apply the policy to the first object for taking (~~120~~) the policy decision.

14. (Original) The computer program according to claim 13, wherein the at least one propagation rule specifies at least one direction and the computer program comprises code adapted to verify if the one or more relations of the relation path are in accordance with the at least one specified direction.

15. (Currently Amended) The computer program according to claim 13 or 14, wherein the at least one propagation rule specifies at least one condition and the computer program comprises code adapted to verify for at least one of the objects of the relation path if said at least one object is in accordance with the at least one condition.

16. (Currently Amended) The computer program according to claim 13 ~~any of the claims 13 to 15~~, wherein the computer program comprises code adapted to consider the existence of the relation path for ~~the obtaining (105)~~ of the policy.

17. (Currently Amended) The computer program according to claim 13 ~~any of the claims 13 to 16~~, wherein the computer program comprises code adapted to obtain the at least one propagation rule from at least one propagation rule database on the base of at least one reference identifier associated to the at least one propagation rule and the policy.

18. (Currently Amended) The computer program according to claim 13 ~~any of the claims 13 to 17~~, wherein the computer program comprises code adapted to obtain at least one further policy component of the policy from the at least one policy component database based on at least one reference identifier associated to the at least one further policy component and the policy.